

### **ABSTRACT OF THE DISCLOSURE**

The invention relates to an intervertebral disk prosthesis formed by an upper part and a lower part. The top face of the upper part and the bottom face of the lower part are provided with essentially convexly curved areas. The bottom face of the upper part is embodied as a convexly or concavely shaped spherical area while the top face of the lower part is provided with a concavely or convexly shaped spherical area. The upper part and the lower part rest against each other in an at least partly jointless manner, movability of the two vertebrae being ensured by moving the spherical areas relative to each other. Wear effects are kept low by providing at least one spherical area with a coating. Loss of blood is expected to be reduced while operating times and recovery times are expected to be shortened and the risk is expected to decrease if the inventive prosthesis is inserted retroperitoneally. Also disclosed is a method for producing a correctly fitting intervertebral disk prosthesis, resulting in perfect adaptation to the anatomy of the vertebral bodies.